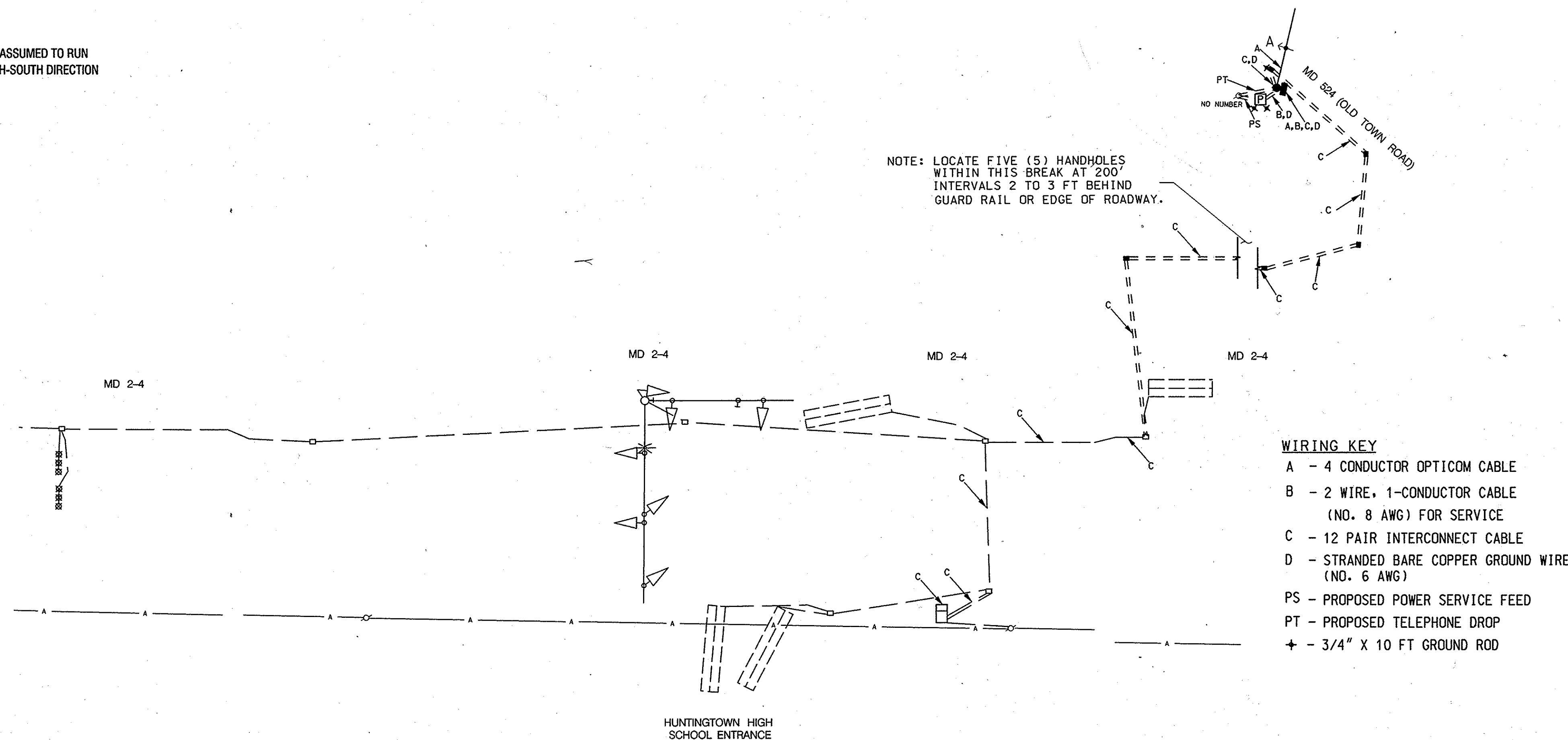


MD 2-4 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION

WIRING DIAGRAM



PHASING SEQUENCE CHART

	1	2	3	4	5	6	7	
PHASE 2	G	G	R	R	R	R	R	
2 CHANGE	Y	Y	R	R	R	R	R	→
PHASE 3	R	R	<G-	G	G	R	R	
3 CHANGE	R	R	<Y-	Y	Y	R	R	→
PHASE 4	R	R	R	R	R	G	G	
4 CHANGE	R	R	R	R	R	Y	Y	→
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	→

EMERGENCY VEHICLE PREEMPTION

EMERGENCY VEHICLE PREEMPTION PHASE 3	R	R	<G-	G	G	R	R	→
PREEMPTION CLEARANCE	R	R	<Y-	Y	Y	R	R	→
PHASE 4 NORMAL OPERATION	R	R	R	R	R	G	G	→

PROJECT DESCRIPTION

1. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF EMERGENCY VEHICLE PREEMPTION AT THE INTERSECTION OF MD 2-4 AT ITS INTERSECTION WITH THE ENTRANCE OF HUNTINGTOWN HIGH SCHOOL IN CALVERT COUNTY.

AN OPTICOM DETECTOR EYE WILL BE LOCATED AT THE INTERSECTION OF MD 2-4 AT MD 524 (OLD TOWN ROAD)/SCARLET DRIVE. THE DETECTOR EYE WILL BE CONNECTED TO THE EXISTING CONTROLLER AT MD 2-4/HUNTINGTOWN HIGH SCHOOL VIA A SPECIAL RELAY PACKAGE OVER A NEW INTERCONNECT CABLE TO BE INSTALLED BETWEEN THE TWO INTERSECTIONS.

THE NORTHBOUND AND WESTBOUND APPROACH MOVEMENTS WILL BE STOPPED. THE SOUTHBOUND APPROACH IS CONTINUOUS FLOW.

MD 2-4 RUNS IN A NORTH-SOUTH DIRECTION.

2. OPERATION

THE OPTICOM DETECTOR WILL PROVIDE EMERGENCY VEHICLE PREEMPTION.

PROJECT CONTACTS

MR. GREG WELKER
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PHONE: 410-841-1001

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DISTRICT UTILITY ENGINEER
PHONE: 410-841-1039

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER -
TRAFFIC
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MR. EDWARD RODENHIZER
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SIGNAL OPERATIONS SECTION
PHONE: 410-787-7652

MR. ANDRE FUTREL
ASSISTANT DISTRICT ENGINEER -
MAINTENANCE
PHONE: 410-841-1031

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
PHONE: 410-787-7631

EQUIPMENT LIST "A"

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9003	1 EA	RELAY (110/120 VOLT) 11 PIN
9014	1 EA	27 FOOT STEEL POLE WITH SINGLE 38 FOOT MAST ARM
9037	1 EA	CONTROLLER CABINET, TYPE "G" POLE MOUNT
9042	1 EA	CONTROLLER ASC II WITH TELEMETRY

EQUIPMENT LIST "B"

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	3 CY	CLASS 3 EXCAVATION
2002	1 CY	TEST PIT EXCAVATION
8005	1 EA	3M OPTICOM DISCRIMINATOR MODULE, 4 CHANNEL #764
8013	1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL
8017	1 EA	REMOVE AND DISPOSE MATERIAL PER ASSIGNMENT

EQUIPMENT LIST "B" (CONTD.)

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
8021	40 LF	4 CONDUCTOR OPTICOM DETECTOR CABLE.
8024	70 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" - BORED 70 FT 4" SCHEDULE 80 RIGID PVC CONDUIT - BORED
8026	1270 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" - TRENCHED 1240 FT 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED 30 FT 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8033	40 LF	NO. 6 STRANDED BARE COPPER GROUND WIRE
8039	45 LF	ELECTRICAL CABLE (1 CONDUCTOR, NO. 8 AWG - THHN/THWN)
8044	10 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8048	1 EA	OPTICOM #721 DETECTOR EYE.
8050	1605 LF	12 PAIR COMMUNICATION CABLE - JELLY FILLED, UNDERGROUND

EQUIPMENT LIST "B" (CONTD.)

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
8056	2 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8064	1 EA	INSTALL 27 FT STEEL POLE (CUT TO 21 FEET) WITH 38 FOOT MAST ARM (CUT TO 28 FEET).
8068	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNTED



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 24 AT HUNTINGTOWN HIGH SCHOOL
INSTALLATION OF OPTICOM EMERGENCY VEHICLE PREEMPTION

GENERAL INFORMATION

SCALE	NOT TO SCALE	DATE	5/2/2007	CONTRACT NO.	9365185
DESIGNED BY	H. DONG	COUNTY	CALVERT		
DRAWN BY	A. POWELL	LOGMILE	04000224.63		
CHECKED BY		TIMS NO.	G 258		
FAP NO.		TOD NO.			
TS NO.	4188A	DRAWING	TS-1	OF 1	SHEET NO. 2 OF 2